

LA-UR-21-21644

Approved for public release; distribution is unlimited.

Title: LANL Contributions to Bioscience Research

Author(s): Del Mauro, Diana

Hengartner, Nicolas W.

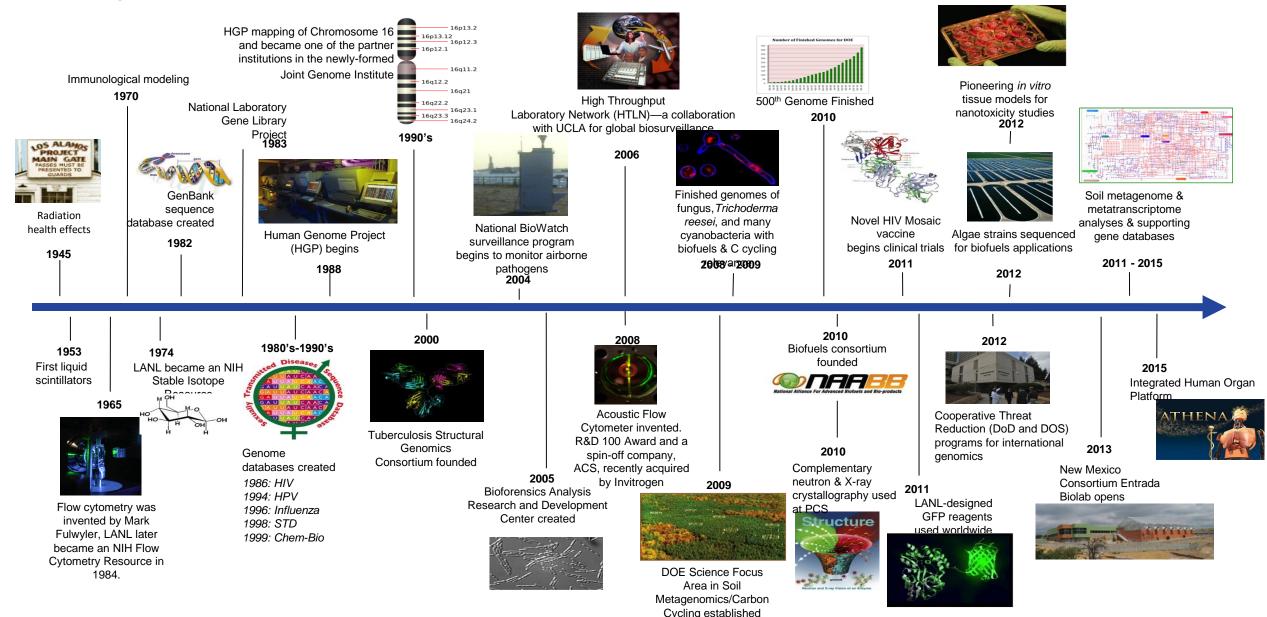
Intended for: Frontiers in Science public event, Feb. 24

Issued: 2021-02-19





LANL Contributions to Bioscience Research

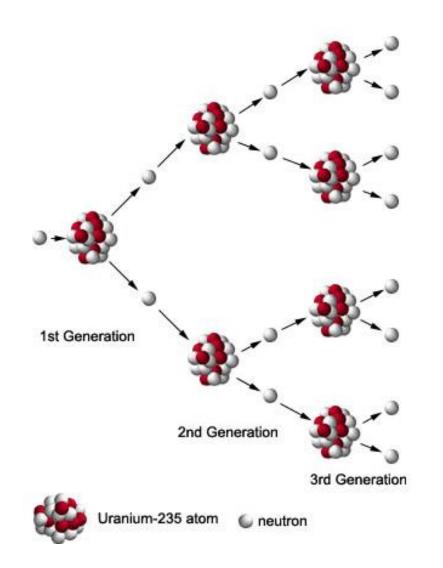


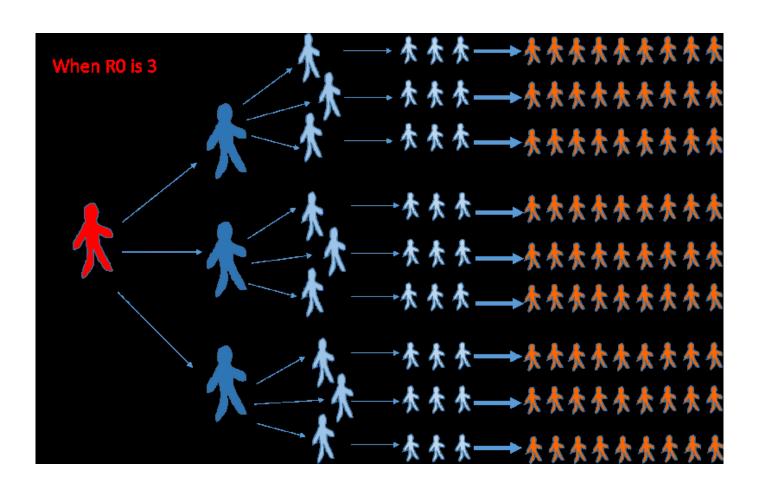






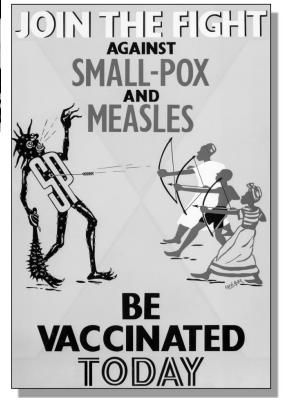
R = # of new infections/infectious individual









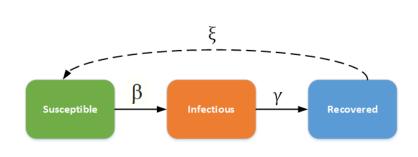






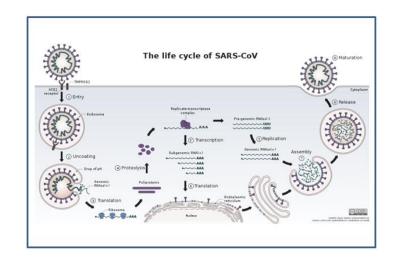
Modeling COVID at LANL

Population infection models

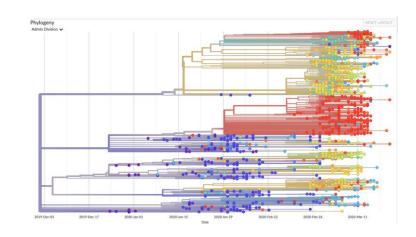


opulation infection models

Within host models



Virus evolution model



Makes prediction of # cases, Hospital use, school closures, etc..

Therapeutics

Vaccine design